

Title (en)
Electronic blinker

Title (de)
Elektronischer Blinkgeber

Title (fr)
Clignoteur électronique

Publication
EP 0870646 B1 20060531 (DE)

Application
EP 98106135 A 19980403

Priority
US 82684297 A 19970408

Abstract (en)
[origin: US5805061A] A method and an electronic circuit are for monitoring the operation of a circuit including a plurality of intermittently powered parallel load elements, such as the flasher lamps of a vehicle. The total load current is directed through a measuring shunt resistor, and the resulting voltage across the shunt is measured and evaluated. The measured voltage initially arising across the shunt is used as a basis to establish a first voltage level for a load failure control threshold. A second voltage level greater than the first voltage level is established as a short-circuit control threshold. Then, the voltage value arising across the shunt during operation of the circuit is compared to the load failure control threshold and the short-circuit control threshold, and a load failure or a short-circuit is detected dependent upon and responsive to the result of these comparisons. If the measured voltage exceeds the first voltage threshold but not the short-circuit control threshold, then a higher voltage level is established as the load failure control threshold. The method and circuit arrangement are self-evaluating and self-adapting for different current flow conditions, and are suitable for use in a variety of load circuits, particularly a variety of different vehicle flasher light system configurations.

IPC 8 full level
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CPC (source: EP US)
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Cited by
EP1544042A1; DE19950851B4; DE102007012913A1; DE102006022975A1; DE10024042C1; CN103596346A; EP0950564A3; DE19854051C2; EP1004474A3; EP1155910A2; EP1004474A2; US6243009B1

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